Theſe Hints, from one who never ſaw a Houſe on fire, will, 'tis hoped, be farther improved by thoſe who have more Experience and Skill in theſe Affairs.

II. *Some Obſervations, made during the laſt three Years, of the Quantity of the* Variation *of the* Magnetic *Horizontal* Needle *to the Weſtward; by Mr.* Geo. Graham, *F. R. S. at his Houſe in* Fleetſtreet, London.

Read Apr. 21. 1748.

				°	′
1745	*March*	26	- - -	17 =	0
		29	- - -	17 =	0
	March	18	- - -	17 =	10
		21	- - -	17 =	10
	April	22	- - -	17 =	15
	May	4	- - -	17 =	18
		14	- - -	17 =	20
		16	- - -	17 =	15
	Dec.	18	- - -	17 =	25 +
	Febr.	24	- - -	17 =	30
1747	*Dec.*	19	- - -	17 =	40
	Jan.	4	- - -	17 =	40 —

The Inclination of the dipping Needle has been during the ſame time about 73½ Degrees.

N. B. As the Variation of the Needle at London *has not been regularly publiſhed from time to time in the* Philoſophical Tranſactions: *It may not be improper to take notice here, that according to the beſt Obſervations extant, and which were made by Perſons of great Skill and Exactneſs, the Needle at* London *declined to the* Eaſtward 11° 15′ *in the Year* 1580. *In* 1657 *there was no Variation, the Needle then pointing due North. In* 1672 *the Variation was obſerved by the late Dr.* Halley 2° 30′ *towards the* Weſt, *and in* 1692 6° 0′. *And towards the Beginning of the Year* 1723, *it was found by* Mr. Graham, *from the Medium of a vaſt Number of Obſervations, to be then* 14° 17′ *the ſame Way. So that, during the Courſe of* 167 *Years elapſed ſince the Year* 1580, *to the End of the laſt Year* 1747, *the magnetic Needle at* London *has moved to the* Weſtward, 28° 55′. See before N°. 148, and N°. 383 of the *Philoſophical Tranſactions.*